

Delivering the  
right equipment  
for your unique laboratory



**CardinalHealth**  
*Essential to care™*





The right piece of equipment is an investment — both of your lab's budget and your valuable time. When it's time to purchase equipment, you want a selection of high-quality items that will stand up to the daily rigors of a lab. That's why Cardinal Health delivers the selection and value you need to keep your lab operating at its peak level.



With the Cardinal Health portfolio, you will find advanced design features with quality construction at affordable prices. Our equipment offering is designed to meet the needs of all disciplines. Helping you meet the highest quality laboratory standards while, at the same time, meeting your budget.



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# Balances

## Cardinal Health™ Analytical Balances



### Technical data

Cat. No.	CHW31-120	CHW31-210
Capacity	120 g	210 g
Readability	0.0001 g	
Pan size (round)	Stainless steel: 3.5 in. / 9 cm	
Draft shield	Yes, glass, 3-door	
Weighing units	g, oz, lb, ct	
Calibration	External	
Display	Backlit LCD	
Dimensions (W x D x H)	12.5 x 18.5 x 11 in. / 32 x 47 x 28 cm	

Cardinal Health™ Analytical Balances provide accuracy and precision for the most demanding research applications. Two capacity options are available. Each incorporates a highly precise, electromagnetic sensor to deliver accuracy and readability to 0.0001 g (0.1 mg).

Widely spaced, the feet lend stability and are adjustable to level the unit. Tare keys are conveniently located on both sides of the control panel for easy access by both right- and left-handed users. These balances incorporate in-lab calibration firmware and are provided with a stainless steel calibration weight. The glass draft shield isolates the weighing area from the outside environment and features sliding doors on the right, left and top.

Cat. No.	Description
CHW31-120	Analytical Balance, 120 g capacity
CHW31-210	Analytical Balance, 210 g capacity

## Cardinal Health™ Compact and Precision Balances



### Technical data – Compact Balances

Cat. No.	CHW33-120	CHW33-300	CHW33-500	CHW33-1200	CHW33-5K	CHW33-10K
Capacity	120 g	300 g	500 g	1,200 g	5,000 g	10,000 g
Readability	0.01 g	0.01 g	0.01 g	0.1 g	0.1 g	0.1 g
Pan size (round)	4.5 in. / 11.5 cm			6.3 in. / 16 cm	7 in. / 18 cm	7 in. / 18 cm
Draft shield	Yes, plastic ring			No		
Weighing units	g, oz, ct					
Calibration	External					
Display	Backlit LCD					
Dimensions (W x D x H)	7.5 x 11 x 3.1 in. / 18.8 x 28 x 8 cm					



### Technical data – Precision Balances

Cat. No.	CHW32-120	CHW32-320	CHW32-500	CHW32-1200	CHW32-3200	CHW32-5K
Capacity	120 g	320 g	500 g	1200 g	3200 g	5000 g
Readability	0.001 g	0.001 g	0.001 g	0.01 g	0.01 g	0.01 g
Pan size (round)	4.5 in. / 11.5 cm			6.3 in. / 16 cm		
Draft shield	Yes, glass, 3-door			No		
Weighing units	g, oz, ct.					
Calibration	External					
Display	Backlit LCD					
Dimensions (W x D x H)	8 x 13.75 x 12.25 in. / 20.5 x 35 x 31 cm			8 x 13.75 x 3.5 in. / 20.5 x 35 x 9 cm		

Cardinal Health™ Compact and Precision Balances quickly and accurately display sample measurements on a large, backlit LCD control panel. Utilizing a highly precise, gold-plated ceramic capacitance sensor, these balances provide reliable measurements to 0.001 g (precision models). Multiple program options allow for weighing, count (piece) mode and percent deviation. In-lab calibration is easy and reliable with the incorporated firmware.

Our economical, compact balances are ideal for a wide range of general weighing applications. Six models cover a weighing range up to 10000 g, with a readability of 0.01 g or 0.1 g. With enhanced shock resistance and overload protection, our compact series of balances is ideal for use in a variety of environments.

The precision series of balances is designed for true research grade applications. With a higher level of precision and readability. They are useful for any laboratory application that does not require a dedicated analytical balance with sub-milligram readability. Advanced software helps to ensure error-free weighing in various applications, including weight accumulation, count weighing, percent deviation and inspection mode.

Cat. No.	Description
CHW33-120	Compact Balance, 120 g capacity, 0.01 g readability
CHW33-300	Compact Balance, 300 g capacity, 0.01 g readability
CHW33-500	Compact Balance, 500 g capacity, 0.01 g readability
CHW33-1200	Compact Balance, 1,200 g capacity, 0.1 g readability
CHW33-5K	Compact Balance, 5,000 g capacity, 0.1 g readability
CHW33-10K	Compact Balance, 10,000 g capacity, 0.1 g readability

Cat. No.	Description
CHW32-120	Precision Balance, 120 g capacity, 0.001 g readability
CHW32-320	Precision Balance, 320 g capacity, 0.001 g readability
CHW32-500	Precision Balance, 500 g capacity, 0.001 g readability
CHW32-1200	Precision Balance, 1,200 g capacity, 0.01 g readability
CHW32-3200	Precision Balance, 3,200 g capacity, 0.01 g readability
CHW32-5K	Precision Balance, 5,000 g capacity, 0.01 g readability

# Digital Dry Baths

## Cardinal Health™ Mini Digital Dry Baths



Available with and without cooling

### Technical data

<b>Temp. range</b>	Ambient +5°C to 100°C
<b>Temp. accuracy</b>	± 0.5°C
<b>Temp. uniformity</b>	± 0.2°C
<b>Temp. increments</b>	0.1°C
<b>Heating Time</b>	20°C to 100°C, <20 min.
<b>Electrical</b>	100 V to 240 V, 50-60 Hz
<b>Dimensions (W x D x H)</b>	4 x 6 x 4.5 in. / 10.2 x 15 x 11.5 cm
<b>Weight</b>	2 lbs. / 1 kg
<b>Warranty</b>	Two-year

### Technical data (with cooling)

<b>Temp. range</b>	Ambient -25°C to 100°C
<b>Temp. accuracy</b>	± 0.5°C
<b>Temp. uniformity</b>	± 0.2°C
<b>Temp. increments</b>	0.1°C
<b>Heating Time</b>	20°C to 100°C, <20 min.
<b>Cooling Time</b>	20°C to 0°C, <25 min.
<b>Electrical</b>	100 V to 240 V, 50-60 Hz
<b>Dimensions (W x D x H)</b>	4.3 x 6.4 x 5.5 in. / 11 x 16.2 x 14 cm
<b>Weight</b>	2 lbs. / 1 kg
<b>Warranty</b>	Two-year

The Cardinal Health™ Mini Digital Dry Baths are compact and have a small footprint on the benchtop. They are available in heating and cooling versions. Each of these units offers a broad temperature range and multiple block options for laboratory incubation. The optional 12 V adapter is available for field use. The clear cover improves temperature uniformity. Blocks are purchased separately.

- Exchangeable blocks for 0.2 to 50 mL tubes
- Less than 4.3 inches wide
- CHBSH200 – temperature range ambient +5°C to 100°C
- CHBSH300 – temperature range ambient -25°C to 100°C
- Cooling model allows for linking two consecutive temperature steps

Cat. No.	Description
<b>CHBSH200</b>	Mini Digital Dry Bath without blocks
<b>CHBSH300</b>	Mini Digital Dry Bath with cooling without blocks
<b>Blocks</b>	
<b>CHBSH100-1</b>	Block, 40 x 0.2 mL or 5 x PCR strips
<b>CHBSH100-2</b>	Block, 24 x 0.5 mL
<b>CHBSH100-3</b>	Block, 15 x 1.5 mL
<b>CHBSH100-4</b>	Block, 15 x 1.5 or 2 mL
<b>CHBSH100-8</b>	Block, 15 x 2 mL autosampler vials
<b>CHBSH100-5</b>	Block, 6 x 5 mL conical (17 mm diameter)*
<b>CHBSH100-6</b>	Block, 4 x 15 mL*
<b>CHBSH100-7</b>	Block, 2 x 50 mL*
<b>CHBSH100-9</b>	Block, 15 x 12-13 mm diameter tubes and vacutainers*
<b>CHBSH10-10</b>	Block, 8 x cuvettes (not compatible with cover)
<b>CHBSH10-11</b>	12 V vehicle power adapter

\*Block height may prevent lid from closing.

# Digital Dry Baths

## Cardinal Health™ Digital Dry Baths



Assorted blocks for a wide variety of tube sizes

Cardinal Health™ series of digital dry baths offer control over both temperature and time, eliminating the need for an external thermometer or timer. Available in three configurations, our digital dry baths offer capacity up to four blocks. Extremely space efficient — our four-block model can accommodate up to 96 x 1.5 mL tubes in less than a square foot of bench space.

Precision machined to match the conical shape of 0.5, 1.5, 2, 15 and 50 mL tubes, the wells in the aluminum blocks offer excellent thermal transfer to sample tubes. Assorted blocks are available for compatibility with nearly all common tube sizes.

Built-in user recalibration function helps to ensure long-term temperature accuracy. Each dry bath includes an easy-to-use block lifter with a temperature insulated handle for quick, convenient exchange of blocks ... even while they're still hot.

### Technical data

<b>Temp. range</b>	Ambient +5°C to 150°C*
<b>Temp. accuracy</b>	± 0.2°C
<b>Temp. uniformity</b>	± 0.2°C
<b>Temp. increments</b>	0.1°C
<b>Timer</b>	1 to 999 minutes
<b>Electrical</b>	115 V, 50-60 Hz
<b>Dimensions (W x D x H)</b>	<b>Single</b> – 7.8 x 9 x 3.2 in. / 20 x 23 x 8 cm
	<b>Two</b> – 8.7 x 10.3 x 3.2 in. / 22 x 26 x 8 cm
	<b>Four</b> – 8.7 x 14 x 3.2 in. / 22 x 35.5 x 8 cm
<b>Blocks</b>	High grade aluminum
<b>Warranty</b>	Two-year

\*Maximum temp. of CH1004 is 130°C

Cat. No.	Description
<b>CH1001</b>	Digital Dry Bath, single position, without blocks
<b>CH1002</b>	Digital Dry Bath, two position, without blocks
<b>CH1004</b>	Digital Dry Bath, four position, without blocks
<b>Blocks</b>	
<b>CHBSW02</b>	48 x 0.2 mL tubes or 6 PCR tube strips
<b>CHBSW05</b>	24 x 0.5 mL
<b>CHBSW15</b>	12 x 15 mL (block height is 3.25 in.)
<b>CHBSW1500</b>	24 x 1.5 mL
<b>CHBSW1520</b>	24 x 1.5/2 mL
<b>CHBSW1516</b>	12 x 15-16 mm (or 12 x 10 mL)
<b>CHBSW10</b>	20 x 10 mm (or 20 x 2 mL) for 10 x 75 tubes
<b>CHBSW13</b>	20 x 13 mm (or 20 x 5/7 mL) for 12 x 75 tubes
<b>CHBSW5MT</b>	12 x 5 mL
<b>CHBSW50</b>	5 x 50 mL (block height is 3.25 in.)
<b>CHBSWPCR1</b>	1 x 96-well PCR Plate (for 1 block model)
<b>CHBSWPCR2</b>	1 x 96-well PCR Plate (for 2 and 4 block models)
<b>CHBSWMT</b>	1 x Micro titer plate (for 2 and 4 block models)
<b>CHBSW01</b>	Solid – for slides or custom machining

# Digital Dry Baths

## Cardinal Health™ Digital Dry Baths with Removable Hinged Lid



The next generation  
Digital Dry Bath

CHH50022B

CHH6000

The Cardinal Health™ next generation of digital dry baths offers advanced microprocessor controls and timed or continuous operation. They also feature a transparent, removable, hinged lid that promotes better uniformity and less temperature stratification in the block by maintaining a warm air layer. The hinged lid also helps to reduce energy consumption by minimizing heat loss to the environment. It can be flipped open (to the rear) or easily removed (lifted off) to accommodate taller tubes.

The dry baths are available as single or dual block models. The IsoBlock model has two independently controlled temperature blocks to allow for different temperature incubations within the same machine.

Both single and dual block models can be ordered in a configuration that includes our unique combination blocks (CHBSWCMB). These universal blocks accept tubes from 0.5 to 2 mL and, with a quick flip to the other side, accommodate 0.2 mL tubes, PCR strips or (in the dual block model only) a PCR plate. Other blocks are available for tubes up to 50 mL.

### Technical data

<b>Temp. range</b>	Ambient +5°C to 105°C
<b>Temp. accuracy</b>	± 0.25°C
<b>Temp. uniformity</b>	± 0.2°C
<b>Temp. increments</b>	0.1°C
<b>Timer</b>	1 minute to 99 hours and 59 minutes
<b>Electrical</b>	115 V, 50-60Hz
<b>Dimensions (W x D x H)</b>	<b>Single</b> – 7 x 10 x 5 in. / 18 x 25 x 13 cm
	<b>Dual</b> – 6.3 x 14.5 x 5 in. / 16 x 36.5 x 13 cm
<b>Weight</b>	10 lbs. (4.5 kg.)
<b>Warranty</b>	Two-year

Cat. No.	Description
<b>CHH50011B</b>	Digital Dry Bath single chamber with one block (CHBSWCMB) for tubes 0.2 to 2 mL and PCR strips
<b>CHH5002</b>	Digital Dry Bath dual chamber without blocks
<b>CHH50022B</b>	Digital Dry Bath dual chamber with two blocks (CHBSWCMB) for tubes 0.2 to 2 mL and PCR strips and PCR plate
<b>CHH6000</b>	IsoBlock Digital Dry Bath with two independently controlled chambers, without blocks

Blocks	
<b>CHBSWCMB</b>	Combination block: Side one holds: 24 x 1.5 mL / 2 mL and 14 x 0.5 mL Side two holds: 6 x PCR strips, 48 x 0.2 mL or one PCR plate*
<b>CHBSW1500</b>	24 x 1.5 mL
<b>CHBSW1520</b>	24 x 1.5/2 mL
<b>CHBSW05</b>	24 x 0.5 mL
<b>CHBSW10</b>	20 x 10 mm (or 20 x 2 mL)**
<b>CHBSW13</b>	20 x 13 mm (or 20 x 5/7 mL) for 12 x 75 tubes**
<b>CHBSW1516</b>	12 x 15-16 mm (or 12 x 10 mL)
<b>CHBSW02</b>	48 x 0.2 mL tubes or 6 PCR tube strips
<b>CHBSW15</b>	12 x 15 mL**
<b>CHBSW50</b>	5 x 50 mL**
<b>CHBSWPCR1</b>	1 x 96-well PCR Plate
<b>CHBSWPCR2</b>	1 x 96-well PCR Plate (for dual chamber models)
<b>CHBSWMT</b>	1 x Micro titer plate (for dual chamber models)
<b>CHBSW01</b>	Solid – for slides or custom machining

\*Two blocks required for use with PCR plates

\*\*Tall block (3.25 in.), height prevents use with lid



# Digital Incubators

## Cardinal Health™ Digital Incubators



Two models: heat and cool, or heat only

With digital temperature control, Cardinal Health™ mini incubators provide convenient “set and walk away” operation, eliminating the need for external thermometers. Simply choose the desired temperature and the incubator immediately begins to heat up (or cool down-HC model only) while accurately monitoring the chamber temperature and conveniently displaying the temperature in real time on the large LED control panel.

Despite a modest footprint of 13.2 x 14.5 in., our incubators feature large internal chambers capable of accommodating flasks and bottles up to 2 liters and two adjustable/removable shelves for increased capacity.

### Technical data

<b>Temp. range (H)</b>	Ambient +5°C to 60°C
<b>Temp. range (HC)</b>	Ambient -15°C to 60°C*
<b>Temp. accuracy</b>	± 0.5°C (at 37°C)
<b>Temp. uniformity</b>	± 1.5°C (at 37°C)
<b>Temp. increments</b>	1°C
<b>Capacity</b>	0.8 cu. ft. (22.65 L)
<b>Electrical</b>	100 V to 240 V, 50-60 Hz*
<b>Dimensions (W x D x H)</b>	<b>Exterior</b> – 13.2 x 14.5 x 18.7 in. / 33.5 x 37 x 48 cm
	<b>Interior</b> – 10.3 x 9.3 x 12.9 in. / 26 x 23.5 x 33 cm
<b>Weight</b>	15 lbs. (6.8 kg.)
<b>Warranty</b>	Two-year

\*For example: minimum temperature in a 22°C environment is approximately 7°C

Cat. No.	Description
<b>CH2200-H</b>	Digital Incubator - heat only
<b>CH2200-HC</b>	Digital Incubator - heat and cool

# Homogenizers

## Cardinal Health™ Handheld Homogenizer



### Technical data

<b>Speed range</b>	8,500 to 30,000 rpm
<b>Capacity</b>	0.1 to 250 mL
<b>Included Probes</b>	5 mm flat and 7 mm saw tooth
<b>Electrical</b>	115 V, 50-60 Hz
<b>Dimensions (W x D x H)</b>	1.8 x 2.3 x 9 in. / 4.5 x 5.8 x 22.5 cm
<b>Weight</b>	1.35 lbs. / 0.62 kg
<b>Warranty</b>	Two-year

The Cardinal Health™ Handheld Homogenizer is designed to rapidly homogenize, emulsify, suspend and disrupt biological samples. It can be used with microtubes and works well with samples from 0.1 mL to 250 mL (depending upon the generator probe used).

The Cardinal Health™ Handheld Homogenizer works by drawing the sample, in liquid, into the generator probe with the variable speed rotor and then forcing it out through the slots in the stator. As the sample is repeatedly drawn up and forced through the stator, additional shearing takes place. It offers speeds up to 8,500 to 30,000 rpm and speed is adjustable in six steps.

Generator probes are available in four sizes. The 5 mm and 7 mm diameter probes are 50 mm long and designed for use in microtubes. One of each of these is supplied with the unit. The optional 10 x 115 mm probe is ideal for use with 15 and 50 mm tubes while the 14 x 130 mm probe is for 50 mL tubes and vessels up to 250 mL. The probes are made of stainless steel and can be sterilized by autoclaving.

Cat. No.	Description
<b>CHD1000</b>	Hand-Held Homogenizer, supplied with one 5 mm flat bottom probe and one 7 mm saw tooth probe
<b>CHD100M10</b>	Optional generator 10 x 115 mm saw tooth, for 15 and 50 mL tubes
<b>CHD1000M1</b>	Optional generator 14 x 130 mm saw tooth, for 50 to 250 mL vessels
<b>CHD1000M5</b>	Replacement generator, 5 x 50 mm flat bottom, for microtubes, 5 pk
<b>CHD1000M7</b>	Replacement generator, 7 x 50 mm saw tooth, for microtubes, 5 pk
<b>CHD1000ST</b>	Stand for hand-held homogenizer

# Homogenizers

## Cardinal Health™ Microtube Homogenizer



### Technical data

<b>Speed range</b>	2,800 to 4,000 rpm
<b>Capacity</b>	3 x 2 mL (screw cap / non-skirted)
<b>Timer</b>	3 second to 3 minutes
<b>Electrical</b>	115 V, 50-60 Hz
<b>Dimensions (W x D x H)</b>	6.9 x 8.3 x 5.3 in. / 17 x 21 x 13.5 cm
<b>Weight</b>	5 lbs. / 2.2 kg
<b>Warranty</b>	Two-year

*Homogenize up to three samples simultaneously*

The Cardinal Health™ Microtube Homogenizer provides extremely powerful mixing action for cell lysis. It effectively addresses the cross contamination associated with handheld homogenizers. The optimal mixing motion causes rapid cell disruption through constant high velocity impact from the hardened micro-beads chosen specifically for your sample type.

#### Feature include:

- Process up to 3 x 2 mL non-skirted tubes simultaneously
- Small footprint on the bench – 7 x 8 in.
- Homogenization often takes place within 45 seconds
- Faster and more effective than tissue grinders.

#### Cat. No. Description

<b>CHD1030</b>	Microtube Homogenizer
<b>Prefilled tube kits - 2 mL non-skirted tubes with screw caps, sealing rings and beads specified below</b>	
<b>CHD1031-01</b>	Silica glass beads 0.1 mm - 50/pk
<b>CHD1031-05</b>	Silica glass beads 0.5 mm - 50/pk
<b>CHD1031-10</b>	Silica glass beads 1 mm - 50/pk
<b>CHD1033-28</b>	Stainless steel beads 2.8 mm - 50/pk
<b>CHD1032-01</b>	Zirconium beads 0.1 mm - 50/pk
<b>CHD1032-05</b>	Zirconium beads 0.5 mm - 50/pk
<b>CHD1032-10</b>	Zirconium beads 1 mm - 50/pk
<b>CHD1032-15</b>	Zirconium beads 1.5 mm - 50/pk
<b>CHD1032-30</b>	Zirconium beads 3 mm - 50/pk
<b>CHD1032-SK</b>	Zirconium beads starter kit -10 ea of 0.1, 0.5, 1, 1.5 and 3 mm
<b>Accessories</b>	
<b>CHD1031T21</b>	Empty 2 mL tubes with caps and sealing ring - 50/pk
<b>CHD1031T20</b>	Empty 2 mL tubes with caps and sealing ring - 1,000/pk
<b>CHD1031ST2</b>	PCR clean screw cap tubes 2 mL - 500/pk

# Rockers

## Cardinal Health™ 3D Rocker



*3-dimensional "gyratory" motion*

Cardinal Health™ 3D Rocker is designed to provide the speed and tilt angle required for a broad range of molecular and biological mixing applications. The user can adjust both parameters to match the vessel size and the volume of liquid being mixed, yielding high-quality results.

The rocking speed is easily set using the front knob while the tilt angle can be changed without tools or disassembly — simply grip the platform and move to the desired angle. Low speeds and a minimal tilt angle create a gentle wave motion, required for most blot washing. Higher speeds and steeper angles produce more aggressive agitation for vigorous sample mixing.

3D Rocker comes standard with autoclavable dimpled and flat mats and maintenance-free, brushless motors.

### Technical data

<b>Speed range</b>	Variable, 2 to 30 rpm
<b>Tilt angle</b>	± 30°
<b>Capacity</b>	5 lbs. / 2.3 kg
<b>Electrical</b>	115 V, 50-60 Hz
<b>Operating temp. range</b>	+4°C to +45°C
<b>Dimensions (W x D x H)</b>	<b>Exterior</b> – 12 x 12 x 8 in. / 30 x 30 x 20 cm <b>Platform (W x D)</b> – 12 x 12 in. / 30 x 30 cm
<b>Weight</b>	7.5 lbs. / 3.4 kg
<b>Warranty</b>	Two-year

<b>Cat. No.</b>	<b>Description</b>
<b>CH3D2300</b>	3D Rocker with dimpled and flat mats

## Cardinal Health™ Nutating Rocker



*3-dimensional motion*

The Cardinal Health™ platform rocker provides a 3-dimensional “nutating” motion for moderately aggressive mixing. The platform size and rubber mat configuration allow for foam-free mixing in blood tubes and centrifuge tubes as well as in a variety of flat vessels.

The supplied, autoclavable, dimpled mat holds tubes securely in place on its large, 12 x 12 in. surface. The maintenance-free, brushless motor is capable of handling loads up to 1.8 kg.

### Technical data

<b>Speed</b>	Fixed, 24 rpm
<b>Tilt angle</b>	Fixed, ± 20°
<b>Capacity</b>	4 lbs. / 1.8 kg
<b>Electrical</b>	115 V, 50-60 Hz
<b>Operating temp. range</b>	+4°C to +65°C
<b>Dimensions (W x D x H)</b>	<b>Exterior</b> – 12 x 12 x 8 in. / 30 x 30 x 20 cm
	<b>Platform (W x D)</b> – 12 x 12 in. / 30 x 30 cm
<b>Weight</b>	4.4 lbs. / 2 kg
<b>Warranty</b>	Two-year

### Cat. No.

### Description

**CH3D1320**

Nutating Rocker with dimpled mat

# Rockers

## Cardinal Health™ Tube Rocker



*Ideal for tube sizes 1.5 to 50 mL*

The Cardinal Health™ Tube Rocker is designed to provide the speed and tilt angle (24 rpm / 30°) for gentle agitation of sample tubes. The grooved design of the included rubber mat properly secures all tube sizes ranging from 1.5 to 50 mL, without the use of added straps or bands. No complicated controls, settings or adjustments to be made; just press the power switch and let it rock.

Small in size (only 5.3 x 13.3 in.) and able to withstand temperatures from 4°C to 65°C, our tube rocker is small enough to fit on any lab bench.

### Technical data

<b>Speed</b>	Fixed, 24 rpm
<b>Tilt angle</b>	Fixed, ± 30°
<b>Capacity</b>	30 x 1.5/2 mL 15 x 5 mL, 7 mL, 10 mL or 15 mL* 8 x 50mL
<b>Electrical</b>	115 V or 230 V, 50-60 Hz
<b>Operating temp. range</b>	+4°C to +65°C
<b>Dimensions (W x D x H)</b>	<b>Exterior</b> – 13.3 x 5.3 x 4 in. / 33.6 x 13.5 x 10 cm <b>Platform (W x D)</b> – 12 x 4.5 in. / 30 x 11.4 cm
<b>Weight</b>	4 lbs. (1.8 kg.)
<b>Warranty</b>	Two-year

*\*15 mL blood collections tubes (16 x 125 mm) extend off the platform surface.*

<b>Cat. No.</b>	<b>Description</b>
<b>CHM2100</b>	Tube Rocker with 15-place grooved mat

## Cardinal Health™ Rotating Mixer



*Includes three rotisseries for all common tube sizes*

Gentle to vigorous mixing of lab samples is provided by the Cardinal Health™ Rotating Mixer. It is ideal for a variety of applications from mixing blood samples to the preparation of homogeneous dispersions. A unique reversing mode provides for increased agitation, the mixer rotates for up to 360° then stops and rotates in the reverse direction.

- Adjustable speed and tilt
- Cold room and incubator safe
- Includes three rotisseries for all common tube sizes
  - 48 x 1.5/2 mL rotisserie
  - 20 x 15 mL rotisserie
  - 12 x 50 mL rotisserie

### Technical data

<b>Speed range</b>	Variable, 1 to 40 rpm
<b>Tilt angle</b>	Variable, 0° to 90°
<b>Capacity</b>	48 x 2 mL, 20 x 15 mL or 12 x 50 mL
<b>Timer</b>	1 second to 9 hours or continuous
<b>Electrical</b>	100 V to 240 V, 50-60 Hz
<b>Operating environment</b>	+4°C to +65°C
<b>Dimensions (W x D x H)</b>	8.25 x 10.5 x 12.5 in. / 21 x 27 x 32 cm
<b>Weight</b>	7 lbs. / 3.2 kg
<b>Warranty</b>	Two-year



Cat. No.	Description
<b>CHR5010</b>	Rotating Mixer with three rotisserie tube holders

# Sterilizers

## Cardinal Health™ Microsterilizer



*Ideal for platinum loops, needles and tube mouths*

The Cardinal Health™ Microsterilizer offers sterilization in 5–7 seconds. It is safe, convenient and has no spatter. This microsterilizer is ideal for platinum loops and needles. It has an asbestos-free core element that quickly heats to 815°C (1500°F). A low temperature setting (500°C) can be used as a “standby” setting which extends the usable life of the heating element.

The ceramic heating element is safely enclosed in a perforated stainless steel guard chamber to protect users from accidental contact with extreme temperatures.

### Technical data

<b>High temp. setting</b>	815°C / 1500°F
<b>Low temp. setting</b>	500°C / 950°F
<b>Sterilization time</b>	5–7 seconds
<b>Chamber diameter</b>	0.55 in. / 14 mm
<b>Chamber length</b>	6 in. / 153 mm
<b>Electrical</b>	115 V, 50-60 Hz
<b>Dimensions (W × D × H)</b>	4 x 6 x 6.5 in. / 10.2 x 15.2 x 16.5 cm
<b>Weight</b>	2.9 lbs. / 1.3 kg
<b>Warranty</b>	One-year

*\*Excludes heating element*

<b>Cat. No.</b>	<b>Description</b>
<b>CHB1000</b>	Microsterilizer
<b>CHB1000-01</b>	Loop holder attachment
<b>CHB1000-03</b>	Slide dryer attachment
<b>CHB1000-RA</b>	Replacement heating element, 115 V
<b>CHB1000-RE</b>	Replacement heating element, 230 V



# Vortex Mixers

## Cardinal Health™ Mini Vortexer



*Mini sized, less than 4 inches wide*

With a 4 mm orbit and fixed speed of 2,800 rpm, the Cardinal Health™ Mini Vortexer vortexes even large samples, including nearly full 50 mL tubes. A complement to its powerful motor, the mini vortexer has a small footprint of less than 4 x 4 in., allowing it to fit on crowded benches.

Pressure activated operation means that the motor is automatically started with slight pressure on the center cup head. Operation is smooth, quiet and efficient. When pressure is removed, operation ceases. The unique head design prevents liquid from entering the housing, prolonging motor life.

### Technical data

<b>Speed</b>	Fixed, 2,800 rpm
<b>Motor activation</b>	Touch
<b>Orbit</b>	4 mm
<b>Electrical</b>	100 V to 240 V, 50-60 Hz
<b>Operating temp. range</b>	+4°C to +45°C
<b>Dimensions (W x D x H)</b>	3.7 x 3.9 x 2.6 in. / 9.4 x 9.9 x 6.6 cm
<b>Weight</b>	1 lb. / 0.4 kg
<b>Warranty</b>	Two-year

<b>Cat. No.</b>	<b>Description</b>
<b>CHV101-R</b>	Mini Vortexer with red cup head

# Vortex Mixers

## Cardinal Health™ Mixer



*Dynamic balance system*

Featuring touch or continuous operation, our general purpose mixer provides smooth vortexing for even large sample sizes, including full 50 mL tubes. The unique counter balance system creates maximum vortexing action, while minimizing noise and excessive vibration. This results in quieter, more efficient and longer lasting operation.

Other features include no-walk suction feet and spill-proof electronic controls.

### Technical data

<b>Speed range</b>	200 to 3,200 rpm
<b>Operating modes</b>	Touch or continuous
<b>Orbit</b>	3 mm
<b>Electrical</b>	115 V, 60 Hz
<b>Operating temp. range</b>	+4°C to +45°C
<b>Dimensions (W x D x H)</b>	5.2 x 6.7 x 6.7 in. / 13 x 17 x 17 cm
<b>Weight</b>	8.4 lbs. / 3.8 kg
<b>Warranty</b>	Two-year

<b>Cat. No.</b>	<b>Description</b>
<b>CHV1000</b>	Mixer with standard cup head

# Vortex Mixers

## Cardinal Health™ Multi-Head Mixer



*Unique multi-head design*

More than your standard mixer, the unique head design features a traditional cup for general purpose mixing, plus holders for up to eight microcentrifuge tubes. A dynamic balanced drive system provides smooth vortexing action while minimizing noise and excessive vibration. Increased speed, up to 3,400 rpm, produces an instant vortex for all tubes, up to 50 mL.

Other features include no-walk suction feet and spill-proof electronic controls.

### Technical data

<b>Speed range</b>	200 to 3,400 rpm
<b>Operating modes</b>	Touch or continuous
<b>Orbit</b>	3 mm
<b>Electrical</b>	115 V, 60 Hz
<b>Operating temp. range</b>	+4°C to +45°C
<b>Dimensions (W x D x H)</b>	5 x 6.3 x 6.7 in. / 13 x 16 x 17 cm
<b>Weight</b>	8.4 lbs. / 3.8 kg
<b>Warranty</b>	Two-year

<b>Cat. No.</b>	<b>Description</b>
<b>CHV1005</b>	Multi-Head Mixer

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**Remember to ask about our portfolio of durable equipment, including cold storage, CO<sub>2</sub> incubators and centrifuges.**

To learn more contact your Cardinal Health sales representative, call 800.964.5227 or visit [cardinalhealth.com](http://cardinalhealth.com).

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